CLAIMS:

- 1. An apparatus for controlling the system supply voltage in a system utilizing a spread spectrum clock signal, the apparatus including:
 - (a) a modulating arrangement operatively connected to apply a first modulation to one of the system supply voltage or a clock signal frequency for the system; and
 - (b) a corresponding modulating arrangement operatively connected to apply a corresponding modulation to the other one of the system supply voltage or the clock signal frequency.
- 2. The apparatus of Claim 1 further including a power supply circuit, and wherein:
 - (a) the modulating arrangement includes a modulator connected to provide a modulated signal to a reference input to the power supply circuit; and
 - (b) the corresponding modulating arrangement includes an arrangement for applying the system supply voltage to control modulation of the clock signal frequency.
- 3. The apparatus of Claim 2 wherein the modulator is connected between a DC reference voltage source and the reference input of the power supply circuit.
- 4. The apparatus of Claim 2 further including a spread spectrum clock source and wherein the system supply voltage is used to produce a modulation signal for a modulation input to the spread spectrum clock source.

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- 5. The apparatus of Claim 4 further including:
 - (a) a signal translator connected to receive the system supply voltage and provide a translated output to the modulation input of the spread spectrum clock source.
- 6. The apparatus of Claim 1 further comprising a spread spectrum clock source having a modulation input, and wherein the modulating arrangement includes a modulation signal source having an output connected to the modulation input of the spread spectrum clock source.
- 7. The apparatus of Claim 6 further including a power supply circuit having a reference input, and wherein the modulation signal source output is applied to modulate the signal at the reference input.
- 8. The apparatus of Claim 7 further including a summing junction connected to sum a DC reference voltage and the modulation signal source output to produced a summed output and apply the summed output to the reference input of the power supply circuit.
- 9. The apparatus of Claim 1 wherein the first modulation and the corresponding modulation comprise unequal waveforms.
- 10. A spread spectrum clock system including:
 - a spread spectrum clock source having a frequency modulation input
 and providing a clock signal;
 - (b) a power supply circuit providing a supply voltage output;

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- (c) a modulating arrangement operatively connected to apply a first modulation to one of the supply voltage output or the frequency of the clock signal; and
- (d) a corresponding modulating arrangement operatively connected to apply a corresponding modulation to the other one of the supply voltage output or the frequency of the clock signal.
- 11. The apparatus of Claim 10 wherein:
 - (a) the modulating arrangement comprises a modulator connected to provide a modulated reference input to the power supply circuit; and
 - (b) the corresponding modulating arrangement includes an arrangement for applying the system supply voltage output to control modulation of the clock signal frequency.
- 12. The apparatus of Claim 11 further including:
 - (a) a signal translator connected to receive the system supply voltage output and provide a translated output to the frequency modulation input of the spread spectrum clock source.
- 13. The apparatus of Claim 10 wherein the modulating arrangement comprises a modulation signal source having an output connected to the frequency modulation input to the spread spectrum clock source.
- 14. The apparatus of Claim 13 wherein the modulation signal source output is applied to modulate a signal applied to a reference input of the power supply circuit.

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- 15. The apparatus of Claim 14 further including a summing junction connected to sum a DC reference voltage and the modulation signal source output and apply a modulated DC output to the reference input of the power supply circuit.
- 16. The apparatus of Claim 10 wherein the first modulation waveform and the corresponding modulation waveform are unequal.
- 17. A method for providing a spread spectrum clock signal for a circuit, the method including the steps of:
 - (a) modulating a power supply signal for the circuit at a first modulation; and
 - (b) modulating the frequency of the clock signal for the circuit at a corresponding modulation.
- 18. The method of Claim 17 wherein the step of modulating in the power supply signal for the circuit includes the step of:
 - (a) modulating a reference voltage input to a power supply for the circuit.
- 19. The method of Claim 17 wherein the step of modulating the frequency of the clock signal for the circuit includes the step of:
 - (a) conditioning the modulated power supply signal for the circuit to produce a conditioned signal at the first modulation frequency; and
 - (b) applying the conditioned signal to a modulation input of a clock source circuit.

- 20. The method of Claim 17 wherein the step of modulating the frequency of the clock signal for the circuit comprises:
 - (a) applying a modulation signal source output to a modulation input of a clock source circuit.
- 21. The method of Claim 20 wherein the step of modulating the power supply signal for the circuit includes:
 - (a) applying the modulation signal source output to modulate a reference voltage input to a power supply circuit.
- 22. The method of Claim 21 wherein the step of applying the modulation signal source output to modulate a reference voltage input comprises the step of:
 - (a) summing the modulation signal source output with a DC reference voltage source signal.
- 23. The method of Claim 17 wherein the first modulation waveform and the corresponding modulation waveform are unequal.